RAMAN SUBEDI

AI/ML Engineer |
 DevOps Enthusiast |
Fullstack Developer |
BIT Graduate

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ABOUT ME

I'm a passionate Information Technology graduate specializing in Artificial Intelligence, Machine Learning, and DevOps engineering. With a strong foundation in software development and a self-driven approach to learning, I build intelligent systems and scalable infrastructure solutions.

Currently expanding my expertise through intensive self-study and hands-on projects while preparing for advanced studies in AI/ML. I believe in the power of technology to solve real-world problems and am always eager to collaborate on innovative projects.

What drives me: Curiosity, continuous learning, and the desire to contribute to cutting-edge AI research and applications.

EDUCATION

Bachelor's Degree in Information Technology (BIT)
 Tribhuvan University, Nepal | 2019 – 2023

Strong academic foundation in software engineering, data structures, algorithms, and system design with focus on data analysis and backend development.

EXPERTISE

Core Skills

Programming & Development
Python • C++ • SQL • Bash Scripting

Artificial Intelligence & Machine Learning
Scikit-learn • Pandas • NumPy • Neural Networks • Data Preprocessing • Feature Engineering • Model Optimization • Supervised Learning • Unsupervised Learning • Statistical Analysis

DevOps & Infrastructure
Docker • Jenkins • Git • CI/CD Pipelines • Linux Administration • Automation • Containerization • Infrastructure as Code • Server Management

Web & Backend
HTML5 • CSS3 • REST APIs • Backend Integration • Web Services

Languages

🇬🇧 **English** – Fluent (Professional working proficiency)
🇩🇪 **German** – Fluent (Strong command)
🇳🇵 **Nepali** – Native
🇮🇳 **Hindi** – Fluent

FEATURED PROJECTS

🤖 Machine Learning Model Development

Ongoing | Self-Directed Research
📂 View on GitHub

Building end-to-end machine learning solutions with focus on practical AI engineering.

Highlights:

- Developed predictive models using Python, Scikit-learn, Pandas, and NumPy
- Implemented comprehensive data preprocessing pipelines and feature engineering strategies
- Explored neural network architectures and deep learning fundamentals
- Conducted rigorous model evaluation using cross-validation and performance metrics
- Created reproducible ML workflows with Jupyter Notebooks

Impact: Gained hands-on experience in the complete ML lifecycle from data collection to model deployment.

Tech Stack: Python • Scikit-learn • Pandas • NumPy • Matplotlib • Seaborn • Jupyter

⚙️ DevOps Infrastructure & CI/CD Automation

Ongoing | Infrastructure Engineering
📁 [View on GitHub](#)

Designing automated deployment pipelines and scalable infrastructure solutions.

Highlights:

- Built automated CI/CD pipelines using Jenkins and Git for continuous integration
- Containerized applications with Docker for consistent cross-environment deployment
- Configured Linux-based server infrastructure simulating production environments
- Implemented automated testing workflows ensuring code quality
- Applied infrastructure-as-code principles for maintainable systems

Impact: Streamlined deployment processes and gained practical DevOps experience applicable to real-world scenarios.

Tech Stack: Docker • Jenkins • Git • Linux • Bash • YAML

📊 Additional Projects

Explore more on my GitHub: github.com/Raman21676

Continuously expanding my portfolio with:

- Data visualization projects
- Algorithm implementations
- Web scraping automation
- API development
- Machine learning experiments

PROFESSIONAL EXPERIENCE

Technology Support Intern

Numa Digital Farm (NDF) | Biratnagar, Nepal
2023 – 2024

Collaborated with technical teams in a fast-paced digital environment, supporting backend operations and platform stability.

Key Contributions:

- Optimized data handling processes in agile workflows
- Maintained platform stability for content delivery systems
- Conducted comprehensive testing cycles identifying critical bugs
- Applied DevOps principles to improve operational efficiency
- Stayed current with emerging technologies through virtual tech forums

Technologies: Backend Systems • Data Processing • Agile Methodologies • Platform Testing

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WHAT I'M WORKING ON

🎯 **Current Focus:**

- Advanced machine learning techniques and neural networks
- Deep learning fundamentals
- Cloud computing and distributed systems
- Open source contributions
- Preparing for Master's programs in AI/ML

📚 **Learning:**

- Deep Learning specializations
- Advanced DevOps practices
- Cloud platforms (AWS/Azure/GCP)
- Computer Vision and NLP foundations

COMMUNITY & LEADERSHIP

Volunteer – Youth Education Initiatives

Biratnagar, Nepal | Ongoing

Active contributor to local educational programs promoting technical literacy and digital skills among youth. Passionate about mentoring aspiring developers and fostering innovation in the community.

INTERESTS & GOALS

Research Interests: Deep Learning • Computer Vision • Natural Language Processing • Reinforcement Learning • MLOps

Career Goals: Pursuing Master's degree in AI/ML to deepen theoretical knowledge and contribute to cutting-edge research while building practical applications that solve real-world problems.

Always open to: Collaboration opportunities • Research projects • Innovative ideas • Networking with like-minded professionals

LET'S CONNECT

I'm always interested in discussing AI/ML projects, DevOps best practices, collaboration opportunities, or just connecting with fellow tech enthusiasts!

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"Technology is best when it brings people together and solves real problems."

Last Updated: January 2026
Status: Open to opportunities & collaborations